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CT-5322F/CT-5642F Fixed Thermal Analytic Camera

Quick Installation Guide

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1. Document Information

Document Scope and Purpose

The purpose of this document is to provide instructions and installation procedures for physically connecting the ioi Thermal CT-5322F/CT-5642F fixed cameras. After completing the physical installation, additional setup and configurations are required before video analysis and detection can commence.



Note:

This document is intended for use by technical users who have a basic understanding of CCTV camera/video equipment and LAN/WAN network connections.

Remarque:

Ce document est destiné aux utilisateurs techniciens qui possèdent des connaissances de base des équipements vidéo/caméras de télésurveillance et des connexions aux réseaux LAN/WAN.



Warning:

Installation must follow safety, standards, and electrical codes as well as the laws that apply where the units are being installed.

Avertissement:

L'installation doit respecter les consignes de sécurité, les normes et les codes électriques, ainsi que la législation en vigueur sur le lieu d'implantation des unités.

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Electrical Safety Notice and Warnings

SAVE ALL SAFETY AND OPERATING INSTRUCTIONS FOR FUTURE USE.

Although the unit is designed and manufactured in compliance with all applicable safety standards, certain hazards are present during the installation of this equipment.

Camera Warnings



Warning:

1. Only qualified trained personnel should service and repair this equipment.
2. Observe local codes and laws and ensure that installation and operation are in accordance with fire, security and safety standards.
3. The unit's cover is an essential part of the product. Do not open or remove it. Operating the unit without the cover poses a risk of fire and shock hazards.
4. Do not disassemble the unit or remove screws. There are no user serviceable parts inside the unit.
5. Operating the camera at voltage levels outside the specified range may result in permanent damage to the unit and void the product warranty.
6. The camera electronics and electronic interfaces are sensitive to electrostatic discharge. Follow appropriate ESD procedures when handling the camera and during installation.
7. Be sure not to expose the camera head to strong sunlight, which could cause the camera to overheat.
8. This product must be connected to an IEEE 802.3at-compliant POE+ power source, or a UL listed Class 2 power supply rated 12-24 VDC or 24 VAC, minimum 20W. IEEE 802.3af PoE is NOT supported.
9. For PoE+ installations, we strongly recommend using STP cabling and an earth grounded end point to ensure proper ESD immunity. For installations powered by AC or DC, a properly earth grounded power source is strongly recommended. Any other installation method may leave the camera at risk and void the warranty.
10. If you use a power supply, make sure that the connection matches the positive and negative polarity on the unit, and protect against static electricity, ground faults and power surges.

Avertissements relatifs à la Caméra



Avertissement:

1. *Seul un technicien formé et qualifié est autorisé à entretenir et à réparer cet équipement.*
2. *Respectez les codes et réglementations locaux, et assurez-vous que l'installation et l'utilisation sont conformes aux normes contre l'incendie et de sécurité.*
3. *Le cache de l'unité est une partie essentielle du produit. Ne les ouvrez et ne les retirez pas. L'utilisation de l'unité sans cache présente un risque d'incendie et de choc électrique.*
4. *Ne démontez pas l'unité et ne retirez pas ses vis. Aucune pièce se trouvant à l'intérieur de l'unité ne nécessite un entretien par l'utilisateur.*
5. *Toute utilisation de la caméra à des niveaux de tension n'étant pas compris dans la fourchette indiquée peut endommager l'unité de façon permanente et peut annuler la validité de la garantie du produit.*
6. *L'électronique et les interfaces électroniques de la caméra sont sensibles aux décharges électrostatiques. Suivez les procédures ESD adéquates lors de toute manipulation de la caméra et au cours de son installation.*
7. *Assurez-vous de ne pas exposer la tête de la caméra aux rayons de soleil intenses qui pourraient surchauffer la caméra.*
8. *Ce produit doit être connecté à une source d'alimentation par IEEE 802.at (PoE+) ou à une alimentation UL de Classe 2 de 12-24 V CC ou 24 V AC, 20W minimum. IEEE 802.3af PoE est pas pris en charge.*
9. *Pour les installations PoE+, nous recommandons fortement d'utiliser des câbles STP et une liaison à la terre pour assurer l'immunité face aux décharges électrostatiques. Pour les installations alimentées par AC ou CC, une source d'alimentation reliée à la terre est fortement recommandée. Toute autre méthode d'installation peut comporter des risques pour la caméra et annuler la garantie.*
10. *Si vous utilisez une alimentation, assurez-vous que le branchement à l'alimentation corresponde aux polarités positive et négative sur l'unité, et protéger l'unité contre l'électricité statique, les défauts de mise à la terre et les surtensions.*

2. Introduction

This document provides information about the ioi Thermal CT-5322F/CT-5642F fixed-mount, fixed focal length thermal camera that includes integrated video analytics. The NTSC/PAL camera system is a hybrid analog/Internet Protocol (IP) networked solution that supports the Open Network Video Interface Forum (ONVIF™) Profile S standard.

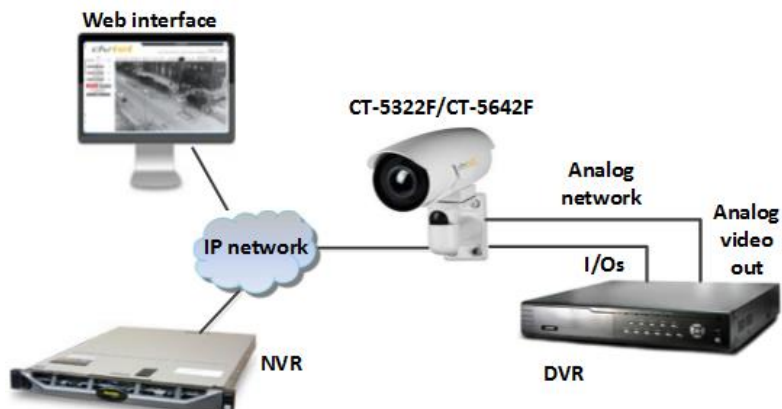


Figure 1: System Installation

2.1. Package Contents

The unit package contains the following items:

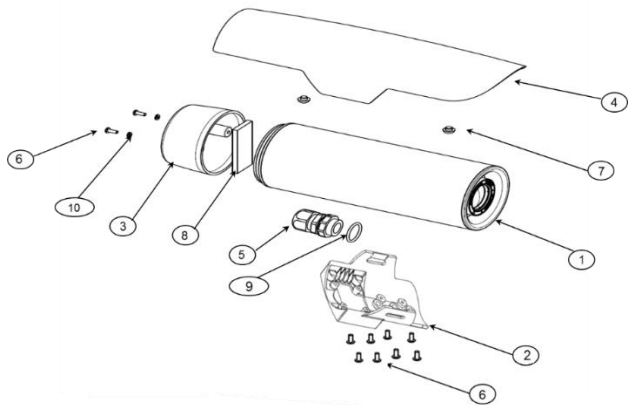


Figure 2: Package Contents

Item	QTY	Description
1	1	CT-5322F/CT-5642F Fixed Thermal Analytic Camera (with 90° RG179BU BNC adapter attached to the connector panel)
2	1	Base mount
3	1	Back cover
4	1	Solar shroud
5	1	Liquid tight cordgrip
6	8	#6 32 x 5/8" screws (including spares)
7	3	Stem bumpers (including one spare)
8	1	White silica gel desiccant for installation
9	1	Rubber O-ring (shown as installed on the cordgrip)
10	3	Sealing washers with gasket (including one spare)

In addition, the following items are supplied:

QTY	Description
1	Package of four terminal connectors: 6-pin for alarms and relay; 4-pin for audio (not currently supported); 3-pin for power and ground; and 2-pin for RS-485 (not currently supported)
1	Locking Nut
2	Ferrites (for power and alarm leads)
1	Quick Installation Guide (this document)



Note:

Use PoE+ or a 12-24VDC or 24 VAC power source that supplies 20W.
IEEE 802.3af PoE is NOT supported.

Related information:

- *ioi Thermal CT-5322F/CT-5642F User and Installation Guide*
- *HTML Edition Units User's Guide*
- *DNA User Manual*

2.2. Connector Panel

The connector panel includes the following items:

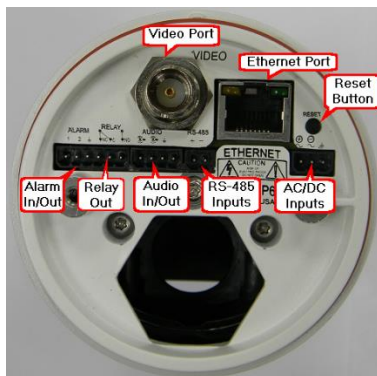


Figure 3: Connector Panel

Item	Comment
Video Port	Connects the analog video coax cable between the camera and an analog DVR.
Ethernet Port	Connects the network cable between the camera and the network switch for network communication and powering the unit. The PoE+ supply requires minimum 20W. IEEE 802.3af PoE is NOT supported.
Reset Button	Resets the unit to full factory defaults. Hold for at least 6 secs.
Alarm In Pins	Connects two alarm inputs via the supplied 6-pin connector to the marked 1, 2, and ground pins. Each alarm input pin should also be connected to the ground pin (i.e., pin 1 + ground, or pin 2 + ground).
Relay Out Pins	Connects the 6-pin connector to the marked NC, C, and NO pins. The NC and NO pin should also be connected to the C pin (i.e., NC + C, or NO + C).
Audio In/Out	Not currently supported.
RS-485 Pins	Not currently supported.
AC/DC Pins	Connects a male 3-pin connector from an AC or DC power supply to the unit's + (positive), – (negative), and ground leads.

3. Installation and Mounting

The physical installation of the unit is the first phase of making the unit operational in a security plan. The goal is to physically place the unit, connect it to other devices in the system, and to establish IP network connectivity.

When finished with the physical installation, refer to the *ioimage Thermal CT-5322F/CT-5642F User and Installation Guide* to complete the second phase of installation, which is the setup and configuration of the unit.



Caution:

To avoid damage from overheating or unit failure, assure that there is sufficient temperature regulation to support the unit's cooling/heating requirements. Operating temperature should be kept in the range -40° to 60°C (-40° to 140°F), with no more than 95% non-condensing humidity.

Attention:

Afin d'éviter tout dommage dû à une surchauffe ou toute panne de l'unité, assurez-vous que la régulation de température est suffisante pour répondre aux exigences de l'unité (refroidissement/chauffage). La température de fonctionnement doit être maintenue dans la plage de température spécifiée pour le produit (-40° à 60°C/-40° à 140°F, sans condensation d'humidité supérieur à 95%).

3.1. Preparation

Read the instructions in this chapter thoroughly before installing the camera. Following are additional considerations for outdoor installation:

- Always use weatherproof equipment, such as boxes, receptacles, connectors, etc.
- For electrical wiring, use the properly rated sheathed cables for conditions to which the cable will be exposed (for example, moisture, heat, UV, physical requirements, etc.).
- Plan ahead to determine where to install infrastructure weatherproof equipment. Whenever possible, ground components to an outdoor ground.
- Use best security practices to design and maintain secured camera access, communications infrastructure, tamper-proof outdoor boxes, etc.
- To minimize the effects of EMI (electromagnetic interference) and RFI (radio frequency interference), consult your reseller.

3.2. Items Required for Installation That Are Not Supplied

The following items are required for installation, but are *not* included in the package:

- Power source (PoE+ switch, 12-24VDC or 24VAC power supply)
- Shielded Twisted Pair (STP) cable if using a PoE+ switch
- Cat 5 Ethernet cable for network connection without a PoE+ switch
- Tripod or mounting bracket for mounting the camera
- One #2 Phillips head screwdriver
- One open-end, 1-inch (25.4mm) wrench or adjustable wrench
- One 6-inch (152mm) scale or ruler
- Electric or manual torque screwdriver set to 10 inch-pounds (1.23 Newton meters)

- Hex wrench
- RJ45 connector
- RJ45 crimping tool
- Coax cable
- Coax cable cutter/stripper
- BNC connector
- BNC crimping tool

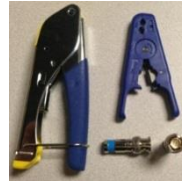


Figure 4: Recommended Tools

3.3. Attach the Base Mount to the Camera

To attach the base mount to the camera

1. Screw the base mount into the camera body with eight #6 screws.



Figure 5: Attaching the Base Mount

2. Using the electric screwdriver, tighten the fasteners to about 8 inch-pounds (0.904 newton meters) of torque.

3.4. Connecting the Camera Cables

In order to connect the camera to the network, take the analog video cable, network cable, power supply leads (if an AC or DC supply is used), alarm, and relay wiring from the wall at the installation site.

In order to connect the wires to the connectors on the camera's connector panel, they must be wired through the supplied cordgrip. Wires must be fed from the wall through the camera's mounting assembly, through the opening on the underside of the camera, through the camera body, and out of the opening on the camera's connector panel. The wires then must be attached to connectors before attaching them to the connector panel.

To connect the camera cabling

1. Disconnect power from any previously installed cables.
2. Remove the cordgrip parts from the package.



Figure 6: Cordgrip Parts

3. Feed the wires through the locking nut, then through the camera body and out of the opening on connector panel.

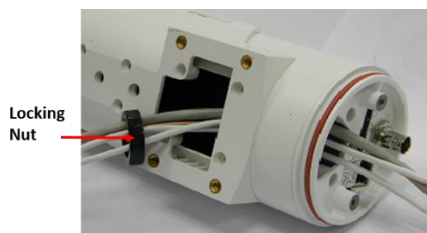


Figure 7: Cables Inserted Through Locking Nut

4. Feed the wires through the cordgrip body as seen in the picture above.

5. Place the orange O-ring over the cordgrip and feed the wires through the cordgrip body and sealing nut as seen in Figure 9.
6. Insert the Ethernet cable through the center opening of the rubber grommet. Then insert the other wires through the small holes in the rubber. The wires should be spaced several holes apart. Nineteen (19) AWG is recommended for the power leads. Twenty (20) AWG is recommended for all wires other than the Ethernet and video cables. The flat side of the grommet should be on the inside of the cordgrip.



Figure 8: Rubber Grommet



Figure 9: Wires Inserted through Grommet

7. If needed, use a #2 Phillips head screwdriver to widen the hole in the center of the rubber grommet.
8. If needed, pierce the smaller holes on the outer perimeter of the rubber grommet for the video cable, AC/DC supply wiring, alarm, and relay leads.
9. Measure about 4-1/2" (114mm) of cable from the end of all wires to the rubber grommet.
10. Push the rubber grommet into the cordgrip body so that the grommet is flush with the slotted side of the body and the flat side of the sealing nut is facing it.

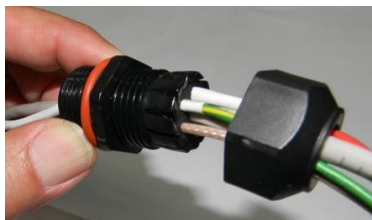


Figure 10: Rubber Grommet Inserted into Cordgrip

11. Insert the wires through the sealing nut and screw the nut so that it closes tightly on the cordgrip body. Use the hex wrench to tighten the nut to 50-55 inch-pounds (5.65-6.215 newton meters) of torque so that the cordgrip is securely fastened.

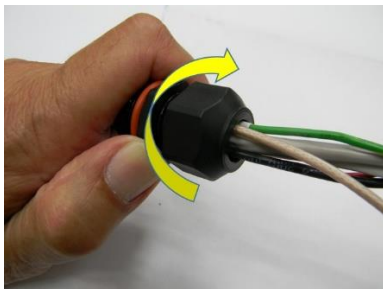


Figure 11: Assembling Sealing Nut

12. Insert the assembled cordgrip into the opening on the connector panel. The side including the exposed screw thread and rubber O-ring should be inserted first.
13. Hand-tighten the locking nut inside the camera body.



Figure 12: Tightening the Locking Nut

14. Use the hex wrench to tighten the nut to approximately 8 in-lbs. (0.9 newton meters) of torque so that the cordgrip is securely fastened.
15. Using a stripping tool, attach an RJ45 connector (not supplied) to the Ethernet cable and an RJ179BU male BNC crimp connector (not supplied) to the video cable. Crimp the wires onto the connectors.

16. If the camera is connected to an alarm or a 12 or 24 volt power supply, it is necessary to insert the wires through the supplied ferrites in order to comply with EMI emission standards.



Figure 13: Power Wires with Ferrite

17. Attach the supplied plugs to the wires. Crimp the wires onto the connectors.
18. If using a power supply, connect the 3-pin male terminal block connector from the power supply to the AC/DC power input.
19. Insert the connectors and plugs into the connector panel.



Figure 14: Camera with Ferrites Installed for Power Supply

**Note:**

If you use a PoE+ switch, in order to ensure a proper earth ground between the camera and the PoE+ switch, we strongly recommend using Shielded Twisted Pair (STP) cabling. Installations of ioimage Thermal cameras with STP cabling and a properly earth grounded PoE+ switch are tested to comply with industry immunity standards for electrostatic discharge (ESD). Any other installation method may leave the camera at risk and void the warranty.

20. Reconnect power to the cables.
21. Check for a steady LED indication on the Ethernet cable RJ45 connector to confirm connection to the IP network. The status LED indicators are:
 - LED 1: Steady green for 10MB connection or flashing green for activity.
 - LED 2: Steady amber for 100MB connection or flashing amber for activity.
22. Insert the supplied white desiccant inside the back cover.



Figure 15: Back Cover and White Desiccant

23. Close the rear cover over the assembled connector panel by aligning the notch on the cover with the notch in the camera body. If necessary, reinsert any excess cable into the body of the camera.

Notches



Figure 16: Covering the Connector Panel

24. Attach the back cover to the camera. Screws are pre-installed in the back cover.
25. Tighten the two fasteners to approximately 8 in-lbs. (0.904 newton meters) of torque.
26. Assemble the two rubber stem bumpers onto the two detents in the concave surface of the solar shroud.



Figure 17: Solar Shroud and Stem Bumpers

27. Snap the solar shroud over the camera body. The camera is ready for mounting.



Figure 18: Fully Assembled Camera

3.5. Mounting the Camera

The camera can be mounted on a tripod or on a base mount or four-hole bracket.

- For tripod mounting, use the tripod adapter, which is available as an accessory.
- For base mounting, install the camera base mount on a standard flat side bracket (not provided) using the supplied #6 32 x 5/8" screws.

4. Accessing the Camera

After installing the ioi Thermal CT-5322F/CT-5642F camera, use the camera's web Interface to make configuration changes and to view live video. In order to make these changes, connect to the camera from any PC on your network.

The PC must meet the following requirements:

- Windows 7, Windows 8, or Windows 8.1 operating system
- IE 8, 9, 10, or 11 browser

4.1. Device Discovery

We recommend using DVTEL's DNA tool to discover the camera on the network.



Note:


Use a DHCP server to facilitate discovery of the unit's IP Address. Confirm that *Use DHCP* is checked in DNA's **Assign IP** dialog box.

By default, when the camera powers on, it attempts to obtain an IP address from a DHCP server in the network. If the camera cannot obtain an IP address through DHCP within a reasonable time, it will default to an IP address of 192.168.0.200 and a subnet mask of 255.255.255.0.

In the event that you do not have access to the DHCP server:

1. Set 192.168.0.11 as the IP address for the client PC.
2. Use the Windows Network tool to locate the camera and set the static IP address.

To discover devices using DNA

1. Download the DNA utility from the DVTEL Partner Portal or DVTEL web site at <http://www.dvtel.com/services-support/firmware-software/>.
2. Click the DNA icon  and run the DNA utility (DNA.exe). DNA discovers all devices on the VLAN.
3. Assign IP address to the device.
4. Click the **Login** icon and enter login credentials for the devices.

5. Enter the unit's IP address in your browser (IE 8, 9, 10, or 11).
6. When the **Login** window opens, enter the unit's default user name and password ("admin" and "admin").

4.2. Viewing Live Video

After logging in for the first time or loading a new firmware version, a dialog box opens in the user interface, requesting you to install the ActiveX plug. After installing the plug-in, the **View** screen is displayed.

To enable the ActiveX plug-in

1. From the web interface, click the on-screen link to install the ActiveX plugin.

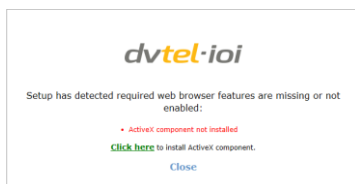


Figure 19: ActiveX Plug-in Message

2. Click **Install** on the Internet Explorer dialog box requesting to you to install the `render.cab` plug-in. Occasionally, after installing the plug-in, a Windows dialog box opens.

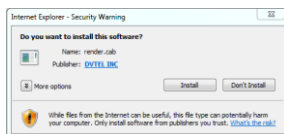


Figure 20: Render.cab Plug-in Dialog Box

3. If you receive this message, click **Restart Now** on the Windows dialog box to restart the computer. The computer restarts.

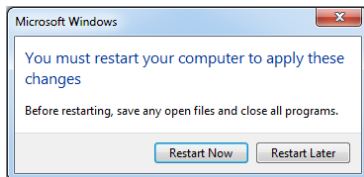





Figure 21: Windows Restart Dialog Box

4. Open your browser and enter the camera's IP address. The **Login** window opens. Enter your user credentials. The **View** screen is displayed.



Figure 22: View Screen

The **View** screen includes the following icons, buttons, controls and menus:

Item	Description
Video Stream	<p>Select the video stream: H.264, MJPEG, or HTTP JPEG. You can select multiple video streams from a single camera, which open in separate browser windows.</p> <p>HTTP JPEG is recommended for:</p> <ul style="list-style-type: none">▪ Accessing a unit that is located behind a firewall at a remote site▪ Transmitting video via HTTP over remote networks with low bandwidth▪ Remote configuration of the unit over the web▪ If you have difficulty viewing the video in H.264
Snapshot	<p>Click the icon to take a snapshot of the image.</p> <div><div><p>Snapshot:</p><p>8/21/2014 - 15:13</p><p>Refresh</p><p>To save a local copy, right click the image and select Save Image As...</p></div></div>
View Size	<p>Adjust the video viewing window to the following sizes: 160 x 120, 320 x 240, or 640 x 480 (default).</p> <div><p>The icon above the top-right corner of the image indicates whether constant recording is active (red dot) or inactive (gray dot).</p></div>

Item	Description
AGC	<p>Automatic Gain Control (AGC) adjusts the gain and level of the entire scene in real-time. From the drop-down menu, select a mode:</p> <ul style="list-style-type: none"> ▪ <i>Freeze</i> – Turns off/freezes AGC at its current level. ▪ <i>Auto</i> – provides an image with optimum average contrast and brightness. ▪ <i>ICE</i> – Enhanced gain control/Image Contrast Enhancement (ICE) that prevents the darkening of scenes and reduces detector noise when hot objects appear in low-contrast indoor scenes. It also amplifies detector noise to enhance images of high-contrast outdoor scenes.
ICE	Move the slider to adjust the strength of the AGC/ICE settings. The range is from 0-7. The higher the number, the better the picture. The default is 4.
Contrast	Move the slider to adjust the contrast. The range is from 0-100. The higher the number, the higher the contrast. The default is 50.
Brightness	Move the slider to adjust the brightness. The range is from 0-100. The higher the number, the brighter the picture. The default is 50.
Polarity	<p>Enables you to select how to display hot and cold pixels. Select one of the following settings:</p> <ul style="list-style-type: none"> ▪ <i>White Hot</i> – Hot pixels are shown as white and cold pixels are shown as black. ▪ <i>Black Hot</i> – Hot pixels are shown as black and cold pixels are shown as white.
Non Uniformity Correction (NUC)	Normally, an NUC is performed automatically to compensate for temperature variations. Click this button to manually force a Non Uniformity Correction. The NUC interval can also be set using the maintenance/camera functions menu.
Arm/Disarm	Click this button to arm or disarm the camera. The camera disarms itself when you configure the unit.
Clear Alarms	Click this button to clear alarms that you have set. The alarm status is indicated under the viewing window.

5. Configuring Analytics

The **Analytics** tab contains menus for defining the camera's field of view depth and detection rules.

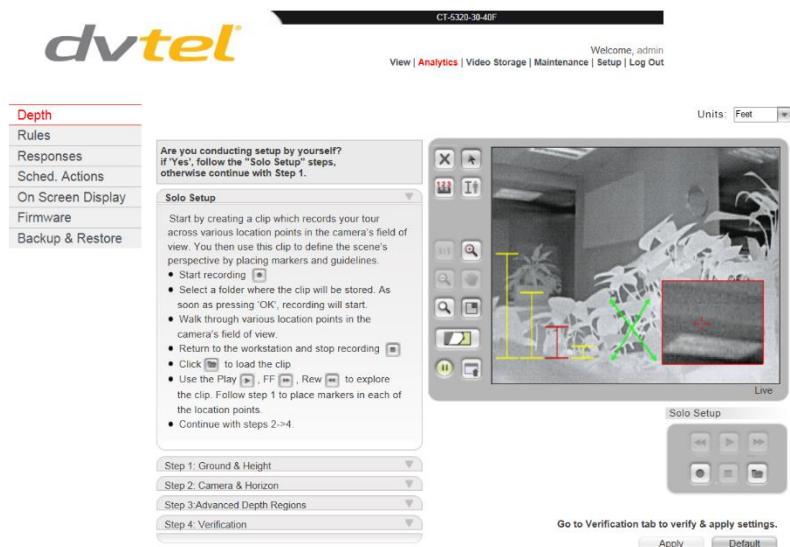


Figure 23: Depth Screen

5.1. Configuring Depth Settings

Follow these steps in the **Analytics > Depth** screen wizard to configure depth settings:

1. From the Live View window, select **Analytics > Depth > Solo Setup**. The following instructions are displayed on the screen.
2. On the Solo Setup control keypad, click the **Start Recording** icon and select a folder where to store the clip.
3. Press **Stop Recording**.
4. Proceed to the tab for **Step 1: Ground & Height** to place ground and height markers and guidelines in the clip.

5. Click **Browse** to load and view the clip. Navigate the clip and add human markers.

6. Exit *Clip* mode and return to *Live* mode by pressing the round **Play** button on the control panel located to the left of the monitor.

Continue setting depth by proceeding to the tabs for Steps 2-4. Follow the on-screen instructions. Expand the **Help** section included with each step for detailed information.

Verify that the settings provide an accurate representation of the sizes and distances in the scene. When finished, click **Apply** to save settings.

Refer to the *HTML Edition Units User's Guide* for detailed instructions on configuring these settings.

5.2. Configuring Rules

The **Analytics > Rules** tab enables you to define detection rules according to the type of detection you want to be notified about.



Figure 24: Rules Screen

Detection occurs when one or more detection rules are active, the camera is in *Arm* mode, and the scenario on the video (scene) fits the detection criterion specified.

You can activate rules, modify settings, delete, or add a new rule. Rules are selected by clicking the *Attributes* tab. The *Basic* tab displays minimal information for the rule. The *Advanced* tab displays additional information for the rule.

From the Navigation Bar, select **Analytics > Rules**. A rule for detecting humans or vehicles entering the scene (blue masked area) is defined by default. To create a new rule:

1. Click **New**.
2. Select the rule type.
3. Draw on the video scene where you want the detection to take place.
4. Define the attributes for detection.
5. When finished, click **Apply** to save the settings.

Contacting DVTEL

To contact us, write us at info@dvtel.com or contact your local office.

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To request the latest versions of firmware and software or to download other product-related documents, visit <http://www.dvtel.com/support>. If you have obtained a login, go to our [support gateway](#). For assistance, email us at support@dvtel.com or phone 1-888-DVTEL77.